





## **PCT**

REC'D 03 JUN 2005

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference								
CPGNA20466	FOR FURTHER AC	CTION	See Form PCT/IPEA/416					
International application No.	International filing dat	e (day/month/year)	Priority date (day/month/year)					
PCT/CN02/00941	31.Dec 200	2(31.12.2002)	05.Dec 2002(05.12.2002)					
International Patent Classification (IPC) or	national classification a	nd IPC						
IPC7:G01N30/60,B32B31/00								
Applicant								
CAPITAL BIOCHIP COMPA	ANY,LTD. et al							
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>								
2. This REPORT consists of a total of	2. This REPORT consists of a total of 3 sheets, including this cover sheet.							
3. This report is also accompanied by A	NNEXES, comprising:							
a. (sent to the applicant and to	the International Burea	u) a total of	sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This report contains indications relat	ing to the following iten	ns:						
Box No. I Basis of the report								
☐ Box No. II Priority	Box No. II Priority							
☐ Box No. III Non-establishr	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
Box No. IV Lack of unity of invention								
⊠ Box No. V Reasoned stater	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;							
citations and explanations supporting such statement								
☐ Box No. VI Certain docum	Box No. VI Certain documents cited							
Box No. VII Certain defects in the international application								
Box No. VIII Certain observ	vations on the internation	nal application						
Date of submission of the demand		Date of completion of this report						
31 Dec.2002(31.12.20	02)	· -	May 2005(05.05.2005)					
Name and mailing address of the IPEA/		Authorized officer						
6 Xitucheng Rd., Jimen Bridge, He Beijing, 100088, Chin		Audiorized officer	Bianxin					
Facsimile No. 86-10-62019451	_	Telephone No. 86-10	0-62085763					



## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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ı	Internation	pplication No.
	_	PCT/CN02/00941
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Вох	k No.	I	Basis of the report .		
1.			ard to the language, this report is based on the internation indicated under this item.	nal application in the language in	which it was filed, unless
			s report is based on translations from the original languagich is the language of a translation furnished for the purp	• • •	. ,
			international search (under Rules 12.3 and 23.1(b))		
			publication of the international application (under Rule	: 12.4)	
			international preliminary examination (under Rules 55	.2 and/or 55.3)	
2.	to th	he re	gard to the elements of the international application, this acceiving Office in response to an invitation under Article I to this report):		
	$\boxtimes$		e international application as originally filed/furnished		
			e description:		as originally filed/furnished
		-	ages •	received by this Authority on	
		_		received by this Authority on	
	П	the	claims:		
	لــا		ages		as originally filed/furnished
		_	ages *	as amended (together wit	th any statement)under Article 19
		_	ages*	received by this Authority on	
		p	pages *	received by this Authority on	<u></u>
		the	e drawings:		
		-	pages		as originally filed/furnished
		_		received by this Authority on received by this Authority on	
		p	nages -	received by this Authority on	en e
		a s	equence listing and/or any related table(s) - see Supplement	ental Box Relating to Sequence I	Listing.
2	_	tu)	he amendments have resulted in the cancellation of:		
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		[			
		L	the claims, Nos the drawings, sheets/figs		
		-	the sequence listing (specify):		
			any table(s) related to sequence listing (specify):		
4	. r	ገ ሞ	nis report has been established as if (some of) the amendn	nents annexed to this report and l	listed below had not been made.
		_	nce they have been considered to go beyond the disclosur		
		Ð	the description, pages		
		Ĺ	the claims, Nos.		·
		.[	the drawings, sheets/figs		
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		ا .	any table(s) related to sequence listing (specify):	numaraded »	
	- <i>I</i> <sub>0</sub>	iter.	n 4 applies, some or all of those sheets may be marked "s	superseueu.	



itations and explanations	supporting s	ich statement	
lty (N)	Claims	1-47	YES
	Claims		NO NO
tive step (IS)	Claims	1-47	YES
- '	Claims		NO
rial applicability (IA)	Claims	1-47	YES
••	Claims		NO NO
1	tive step (IS)	tive step (IS)  Claims  Claims  claims  claims	Claims  tive step (IS)  Claims  1-47  Claims  rial applicability (IA)  Claims  1-47

2. Citations and explanations (Rule 70.7)

Claims 1-47 meet the criteria set out in PCT Article 33(4) for industrial applicability.

US5658413 is considered to represent the most relevant state of the art and discloses miniaturized planar column devices which comprise microstructures fabricated by laser ablation in a variety of novel support substrates(columns 4-22, figure 1B, 7A, 7B, 8A, 8B) . Since this invention relates to microfabricated channel, which is different from US5658413, claims 1-47 are new and not obvious over US5658413, they do have novelty and inventive step under PCT Article 33(2) and (3).

US5792943 discloses a planar separation column device which includes complementary microstructures formed in a planar foldable substrate(columns 3-21, figure 5,6A,6B) .US4935040 (columns 4-10, figure 1-5,7) also relates to gas chromatographic columns, especilly about laminated wafers with channels. But, they also do not disclose the same channels as this invention, so claims 1-47 are new and not obvious over these two documents.